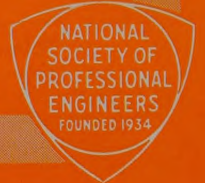




the **ILLINOIS ENGINEER**



73rd ANNUAL MEETING
HOTEL ORLANDO, DECATUR
APRIL 10, 11 & 12



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Of Interest to I. S. P. E.

PRESIDENT'S MESSAGE

By A. W. NEUREUTHER

Let's celebrate Engineer's Week! February 16-22, 1958 should be the Annual Engineer's Festival! Why? For the same reasons that farmers and merchants hold Fall Festivals and County Fairs, and that great countries stage World Fairs . . . to celebrate success, achievement, and prosperity!

Due to the basic needs of our country for more applied science, as well as the state of the nation this year, we are joined by industry, government, educational agencies, and political and religious groups in the national celebration of Engineer's Week.

Recent international developments have focused attention on our scientific and technical progress, our educational systems, and the coordination and organization of our research and development activities. The second session of the 85th Congress which convened on January 7, 1958 has already been labelled the "Scientific and Engineering" Congress.

Public statements and proclamations by important government officials, aided by cooperation from the mediums of radio, TV, newspapers, and magazines augment the observance and assist in the proper celebration of Engineer's Week.

"Engineering Builds Broader Horizons" will be the theme for the 1958 national Engineer's Week as it is observed through forty-five state Societies, with more than 300 local chapters having 43,000 members in the National Society of Professional Engineers.

Features of the week will be career conferences with high school students; guided tours for young people through industrial firms; essay contests on the values of studying mathematics and science in high school; open house exhibits by industry and engineering groups, panel discussions on radio and television on the career opportunities in engineering; and a variety of local activities including dinners, speeches, shows, demonstrations, programs, exhibits, guidance, and publicity.

Engineers are again reminded of their obligation to disseminate information to others concerned with science and engineering. They ought to further build their profession by giving more time and attention to professional matters.

N.S.P.E., whose members are the most active participants in the varied activities of Engineer's Week, invites qualified nonmembers, who heretofore have merely

been passive observers who profit by the professional progress of Engineer's Week, to become members of the Society, and to benefit from active participation.

Every member ought to resolve to be a part of Engineer's Week, and to enjoy the "festival" each year. Let's have a ball in 1958!

COVER STORY

The historic Transfer House in Lincoln Square, Decatur has been a land mark for many years. Built originally as a shelter for street car patrons, later it was a terminal point for bus riders. It is presently not being used. It has been a controversial subject for the City of Decatur. One group is desirous of tearing the building down and the other group is as vocal in preserving it. Decatur is the location of the 73rd Annual Meeting and if recent events are shadows of coming events, the Transfer House may be symbolic of a rapid change in Illinois Society affairs.

73rd ANNUAL MEETING HOTEL ORLANDO, DECATUR APRIL 10, 11 & 12

I hold every man a debtor to his profession;
from the which as men of course do seek to receive countenance and profit, so ought they of duty to endeavor themselves by way of amends to be a help and ornament thereunto.

Sir Francis Bacon

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ILLINOIS SOCIETY OFFICERS FOR 1958-59

The following officers will lead your Society beginning April 12 at the end of the 73rd Annual Meeting and continuing in office until the end of the 74th Annual Meeting.



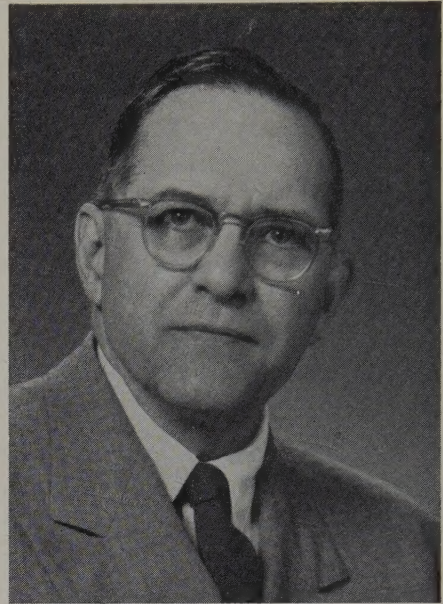
PRESIDENT

Frank W. Edwards joined ISPE as a National member in 1949. He was representative to the Illinois Engineering Council in 1951 and 1952. He was elected Chicago Chapter Vice-President in 1951, President in 1952, and afterwards became a representative of the Chicago Chapter to the State Board of Direction. He has served as Vice-President of the State Society this past year. He is registered, not only in Illinois, but also in New York, Ohio, Wisconsin, Nebraska, and Alabama. He is a member of Tau Beta Pi; Sigma Xi; and Chi Epsilon. He has served as President of the Illinois Section of the American Society of Civil Engineers, is a director of WSE, is a member of ASME, the American Society for Engineering Education, AWWA and CES. After graduating from the University of Iowa with a BS degree in 1928, he obtained his MS degree in 1930, and CE degree in 1934. He headed the School of Civil Engineering at IIT until a few years ago when he became Manager of the Chicago Office of the Stanley Engineering Company with offices at 208 South LaSalle Street. Frank and Harriett are hosts to their children, grandchildren and many friends at 25 Tuttle Avenue in Clarendon Hills, Illinois.

VICE PRESIDENT

Donald S. Magowan, Vice President, has been a member of ISPE since 1945, and District Engineer for the Illinois Division of Highways (District One) since March, 1955. He can be reached at the State Offices at 595 South State Street, Elgin. He and his wife, Lorna, reside at 258 Hamilton, in Elgin. "Mac" graduated from the State University of Iowa with a B.A. degree in

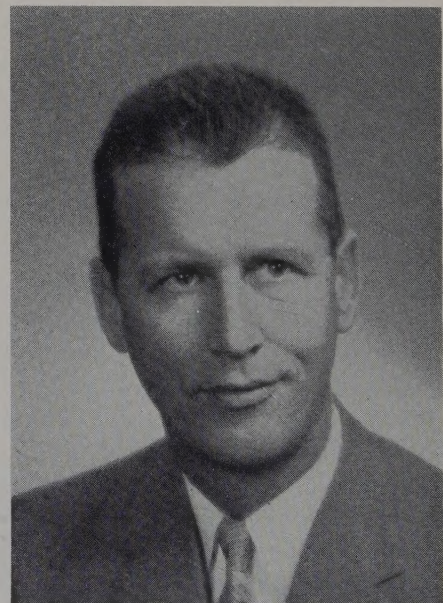
Civil Engineering in 1920. He received a Civil Engineering degree in 1924. He is registered as a professional engineer in Illinois and Iowa, and is a registered land surveyor in Illinois. As President of the DuKane Chap-



ter, he holds the distinction of having been President of two other chapters; Chicago in 1948 and Capital in 1953. "Mac" is a member of the Illinois Association of Highway Engineers.

SECRETARY-TREASURER

James P. Murphy, Secretary-Treasurer, is a partner with Crawford, Murphy and Tilly, Consulting Engineers, at 755 South Grand Avenue, West, Springfield. He became a National member in 1946, was elected Sec-



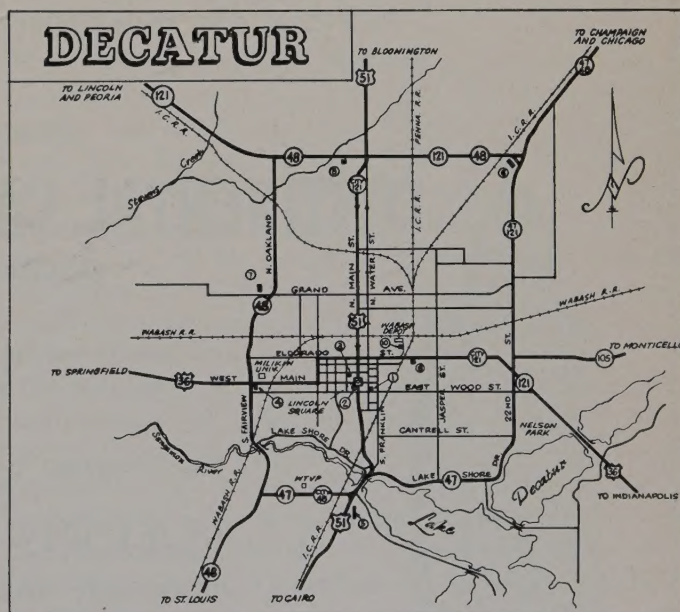
retary-Treasurer of the Capital Chapter two years later, Vice-President in 1949, and President in 1950. According to many members of the Capital Chapter, "He was

NATIONAL DIRECTORS

Melvin E. Amstutz, National Director, has been a member of ISPE since 1931, a National member since 1940. He is Past President (twice) of the Lake County Chapter and was the State Director in 1937. He is a member of the Illinois Professional Engineers' Examining Board and is a registered professional engineer and land surveyor in Illinois, and a registered professional engineer in Ohio. He and his wife, Mary Leora, live at 606 Atlantic Avenue in Waukegan. As County Superintendent of Highways for the Lake County Highway Division, his office is in Libertyville. He was graduated from Baldwin-Wallace College and Northwestern University where he received a B.S. degree in 1925.

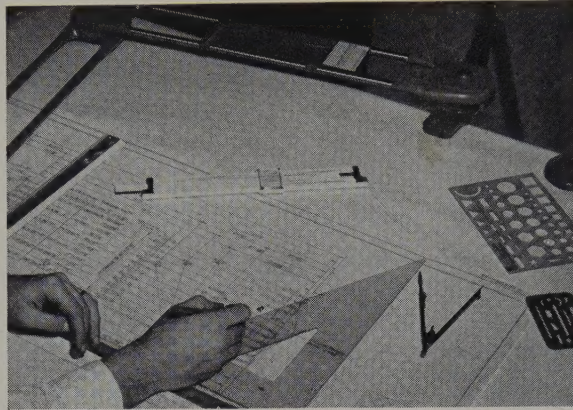
Registration for the 1958 Illinois Land Surveyors Conference will be conducted in the Illini Union building, Urbana, March 10th from 10:00 a.m. until noon. Coffee will be served during this registration. Technical sessions will begin after the luncheon and continue through Wednesday afternoon. Many panels and papers are included in the program; "The Land Surveyor Registration Law," "Standards and Ethics," "Platting and Planning Regulations by State, County and Municipalities", "U. S. Government Land Surveys", "Surveyors' Business Problems", "Education for Land Surveyors", "Legal Problems", "Planning Utility Easements", "Photogrammetry", "Land Surveying for Illinois State Highways", "The Surveyor as an Expert Witness", "Subdivisions and Land Planning", "Public Relations" and others. Proceedings for the entire program will be published.

The conference will be highlighted by a banquet at the Urbana Lincoln Hotel at 7:00 p.m. Tuesday March 11, 1958. An organizational meeting will be held on Wednesday at which time such problems as affiliation, future programs, etc., will be aired. ISPE, The Society for Professional Land Surveyors and the University of Illinois combine to sponsor this conference. More information and pre-registration forms can be obtained by writing W. Eldridge, Room 205, Surveying Bldg., University of Illinois, Urbana, Illinois.



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THE ETHICS OF ENGINEERING PRACTICE AND ITS RELATION TO REGISTRATION

By PROFESSOR THOMAS C. SHEDD

Member of State of Illinois Professional Engineering Examining Committee

Reprinted by special permission from the 1957 Proceedings of the National Council of State Boards of Engineering Examiners.

My first reaction to the topic assigned to me for discussion, "The Ethics of Engineering Practice and Its Relation to Registration" was that there is no relation between them.

When we use the expression "The ethics of engineering practice," presumably we are thinking of those principles of conduct the observance of which will make one an acceptable and respected member of the engineering profession.

When we speak of registration, as applied to professional engineers, we are thinking of a definite legal matter, an exercise of the police power of the state, designed to protect the life, health and property of its citizens and to promote the general welfare.

The former refers to principles which are more or less intangible, seldom formalized in the mind of the individual, and acquired for the most part more or less unconsciously through family discipline, association with one's fellows and early religious training.

Because of the way in which one's outlook on these matters is acquired, it is inevitable that even when attempts are made to formalize principles of proper conduct by setting up codes of ethics, these statements will mean different things to different people. What may seem to one person to be highly ethical conduct, may appear to another as of doubtful propriety, and to a third as Quixotic nonsense.

It is obvious that in many cases a given course of conduct will be so clearly right or wrong that there is only one choice for an honorable man: he must adopt a certain line of conduct. On the other hand, situations may arise in which the question of what is right and what is wrong is so indistinct that equally honest and sincere men may hold diametrically opposed opinions, and a final choice becomes entirely a matter of individual conscience.

For these reasons it is my opinion that, although we can and should set up codes of ethics and urge adherence to them, matters of ethical conduct cannot be reduced to legally enforceable rules.

On the other hand, the qualifications which enable one to become a registered professional engineer cannot be acquired unconsciously through association with one's family and fellows, but are the conscious result of painstaking study of the underlying sciences and their application in professional experience. These qualifications can be legally prescribed, and compliance with them can be enforced through penalties for improper practice.

But it is also true, if I may be permitted to paraphrase

the late Professor Meade of the University of Wisconsin, that although the law defines the privileges of the individual in the larger matters of life, it does not always assure equity and justice even in these matters, and is a guide, only to a limited extent, in the everyday relations of man to man. It is not sufficient merely to observe the law. One may live strictly within the law and yet be a undesirable citizen, friend or neighbor.

It was such reflections that led to my first reaction that there is no relation between the ethics of engineering practice and registration.

Upon further thought, however, it appears that we may possibly trace a connection, as an examination of registration acts will disclose that proper conduct was at least in the minds of legislators when these acts were adopted.

Of the 52 registration laws from which data were available to me, 47 have either a positive statement that "good character and repute" are prerequisite to eligibility for registration or a negative statement that one who is *not* of good character and repute is not eligible for registration.

Most of the registration laws set up the technical qualifications prerequisite to registration and then add a sort of postscript that "no person shall be eligible for registration as a Professional Engineer who is not of good character and reputation."

A few acts state the character requirements *before* defining the technical qualifications. Of the four registration laws in Illinois, three (Professional Engineering, Structural Engineering and Land Surveying) state before any definition of technical requirements that the applicant must be of "good moral character and temperate habits." In the fourth, good moral character is set up before the technical requirements, but apparently temperate habits are not a prerequisite to practice in that field.

All registration acts define rather clearly the technical requirements for registration and state with varying degrees of completeness how possession of the specified attainments must be established. No registration act about which I have been able to get information defines in any way good moral character or temperate habits, or even mentions any test to determine the applicants' fitness in these respects.

Most acts set forth in meticulous and voluminous detail the various legal curlicues to be followed in refusing to issue, suspending or revoking a license, but no act, so far as I have been able to determine, even mentions what is to be done if the registrant later is found to be

below par in a moral sense. To be sure, most if not all acts state that a cause for revocation is "The practice of any fraud or deceit in obtaining or attempting to obtain a certificate of registration." Such conduct is surely to be regarded as unethical, but it is more definitely illegal and subject to prescribed punishment.

It is also clear, I think, that the State Boards which administer the registration acts are always conscious of the importance of ethical conduct in the practice of the profession.

Through the courtesy of Secretary Legare there was made available to me a summary of the replies to a survey recently conducted by the Ethical Practice Committee of The National Society of Professional Engineers.

The secretaries of the Member Boards of the NCSBEE were asked several questions regarding the extent to which a code of ethics was a part of their application for registration as a professional engineer.

Replies were received from 48 of the 53 Member Boards (a remarkable return) and with your permission I would like to read two brief paragraphs from the memorandum sent by the Chairman of the NSPE Committee to the secretaries of the Member Boards of NCSBEE.

The following paragraphs are quoted from National Society of Professional Engineer's Ethical Practices Committee, memorandum dated May 29, 1957. Mr. E. K. Nicholson, Chairman, has kindly consented to the use of this material.

"Paragraph 3. Stated briefly, 24 of 48 Boards are "Ethics" conscious to various degrees at present, and in two more states, legislation is being considered to officially adopt a Code of Ethics.

"Paragraph 4. Of the Boards responding: 16 have a Code of Ethics as a part of their application; one requires the applicant to subscribe to the Canons by a notarized signature; one requires that the applicant agree to abide by the Code of each professional society of which he is a member; six make a point of getting a Code or the Canons into the hands of applicants or new registrants; two states are considering legislation leading to the adoption of a Code of Ethics; and one publishes the Canons in its Year Book."

Presumably the "Canons" referred to are the "Canons of Ethics for Engineers" adopted by the Engineers' Council for Professional Development—some ten years ago.

This memorandum is very interesting from several points of view. For one thing it indicates that, in the minds of most of the Member Boards of our Council, ethical practice by their registrants is of great importance. With this I can and do heartily agree. Further, the memorandum seems to imply that some Boards believe the canons of ethics can be enforced legally. This I am inclined to doubt. It may be possible (although I doubt it) to draft a code of ethics simple enough and definite enough to permit incorporation in and enforcement by a registration act, but the "Canons of Ethics" previously referred to are not, in my opinion, in this category.

There are 28 items in these canons. Twelve do not contain the words engineer or engineering and are equally applicable to any business or profession. In a great majority of the sixteen items the words engineer or engineering could be replaced by the words lawyer, doctor, law or medicine, and be equally applicable to these professions.

It is my understanding that to be legally enforceable, the provisions of any act must be so clear and definite as to be understandable by those to whom they apply. Fine statements though they are, the "Canons of Ethics" clearly do not meet these requirements. A casual examination of one or two items in the canons will, I think, suffice to illustrate the point. For example, Section 20 of the canons, dealing presumably with the relations between an employing engineer and his subordinate, states: "He will take care that credit for engineering work is given to those to whom credit is properly due." An admirable sentiment, but what does it mean? What kind of credit? How much credit? How should it be given? To whom is it properly due? And who is to decide these questions? Can a dissatisfied employee take his employer into court and obtain satisfaction on the basis of this statement? Or consider Section 22, in the same category, which states: "He shall endeavor to provide opportunity for the professional development and advancement of engineers in his employ. Again an admirable sentiment—but what are the precise obligations an employing engineer assumes when he attaches his signature before a Notary Public? Certainly there is no clear and definite statement as to what is included, and who is to decide whether the employer did or did not endeavor to meet the quite uncertain obligations he assumed?

To sum up these reflections (and they are no more than reflections) I am convinced that respect for and effectiveness of registration of professional engineers will be greatly influenced by the degree to which our registrants conduct their practice in accordance with high ethical standards.

To this extent there is, in my opinion, a relation between "The Ethics of Engineering Practice and Registration." The relation, however, must be informal in the sense that adherence to ethical standards must be obtained by education and example and by constant emphasis on the importance of the matter in our schools and professional societies. In short, by gentle persuasion—not by legal compulsion.

73rd ANNUAL MEETING HOTEL ORLANDO, DECATUR

APRIL 10, 11 & 12

The peasants in some European countries are accustomed to sleep with their feet on a pillow. The reason is that, in the peasant's opinion, the feet work harder than the head and are therefore entitled to the softest position.

DEVELOPING THE PROFESSIONAL ENGINEER-ENGINEERING TECHNICIAN TEAM

By ELLIS DANNER

*Professor of Highway Engineering
University of Illinois*

What is the true engineering manpower situation today? Much has been said and written recently about the engineering shortage. A number of informed people believe that there is not a critical shortage of professional engineers, but rather a shortage of total manpower in the engineering field. There is no question but that a number of professional engineers are performing many man-hours of work which could be quite satisfactorily performed by persons with different education and experience than that required for a professional engineer.

The types of work directly involved in accomplishing engineering objectives vary with the organizations concerned and with the branches of engineering. However, an analysis of most engineering operations would indicate a division of the total man-hours required to achieve the end result into the following classes of work:

1. Administrative and clerical
2. Specialized disciplines such as science and research, legal, accounting, public relations, etc.
3. Engineering technician
4. Professional engineer

The most effective use of manpower in engineering operations will result when the work to be done is broken down into classes of duties as outlined above and then the most suitable personnel is developed and utilized for each particular class of work. It is not a new idea that engineering technicians can be efficiently used to supplement the work of professional engineers. However, engineering technicians have not been used to any great extent except in a few industries until the engineering shortage recently became serious enough to force an awareness of the possibilities in this area. Particularly with the greatly expanded national highway program the state highway departments have recognized the necessity of much greater use of engineering technicians. Studies have indicated that many engineering organizations can use efficiently two or three engineering technicians for each professional engineer. But the engineering technicians needed are not readily available and a specific program is required to develop them.

There are at least four phases of any effective program for developing engineering technicians. First, there must be an analysis of the work to be performed by the organization to get a picture of what types of work can be satisfactorily performed by technicians. From this work analysis position classifications and salary levels for engineering technician grades must be established which will offer attractive career opportunities. A recruitment program must then be set up to tap potential sources of personnel that would be interested in technician careers. High school graduates with an interest in

technical matters who are not going on to college provide the most likely source. And, finally, there must be a definite training program, either formal or on the job or a combination of both, to qualify these people as engineering technicians.

Any organization that is expanding its use of engineering technicians will have a serious problem of retaining its professional engineers to the new program. Because of a shortage of technicians the professional engineers will have become accustomed to performing many duties which a technician can handle. Since these duties are easier and simpler for the engineer than strictly professional engineering work many of the older engineers will be reluctant to turn this work over to technicians. As the technician staff increases, the engineers will be able to devote more of their time to the professional tasks which require engineering knowledge and ability in arriving at sound decisions. Engineers will then be able to work more nearly at their level of ability and a much higher grade of engineering work may be expected. Greater recognition of the true worth of the professional engineer is certain to result from this program. Development of the professional engineer-engineering technician team, with each group completing the work of the other, may be expected to produce a major increase in both engineering quality of work and in productivity.

Many state highway departments are now setting up engineering technician programs. The Highway Research Board Committee on Education and Training of Highway Engineering Personnel, of which the author is chairman, is undertaking a comprehensive study of all highway engineering work to determine what classes of duties can be satisfactorily performed by engineering technicians. If all the professional engineers in the highway departments were devoting full time to strictly professional work, assisted by a capable corps of engineering technicians, we might have enough engineers to keep the highway program on schedule.

In 1957, the Illinois Division of Highways initiated a complete program for the development of engineering technicians. A survey of the highway work load indicated that technicians could be effectively used for design computations and drafting, for location and construction surveying, and for materials and construction inspection. Four engineering technician grades were established as of July 1, 1957 with starting salaries for the lowest grade from \$250 to \$300 per month and the upper limit for the top grade at \$750 per month. A number of employees in other classifications actually doing technician work were transferred to the appropriate technician grades last July 1.

In addition, two hundred high school graduates, selected on the basis of their high school records and their scores on aptitude examinations given by the University of Illinois, were employed by the Division at \$250 per month and sent to the University of Illinois (125 at the Urbana Campus and 75 at Navy Pier) for eleven weeks

of intensive training from June 16 through August 31. These trainees were given work in algebra, trigonometry, engineering drawing, general surveying, and highway materials. 183 trainees completed the program and went to work as Engineering Technician I for the Division of Highways on September 1, 1957 at \$300 per month. In accordance with the agreement signed by each trainee and his parent or guardian when he was accepted for the training program he is to work for at least one year for the Division after completing the training program.

A recent survey by the Division of Highways indicates that most of these trainees have performed quite well. Since the majority of them were recent high school graduates they are relatively young and a couple of years of maturity will improve their dependability and usefulness. The training is continuing on the job and their value to the Division will increase materially with each year of experience.

A similar program for a smaller number of trainees is contemplated for 1958. Greater care will be used in the selection of trainees and only those who demonstrate a reasonably high capability for the program will be chosen. With the addition each year of 100 to 150 carefully selected engineering technicians with fundamental training in highway work and with continued on the job training the Illinois Division of Highways will have in a few years an effective group of engineering technicians so that the professional engineer-engineering technician team, ably supported by the administrative, clerical and special classes of employees, will keep Illinois in the forefront in highway development.

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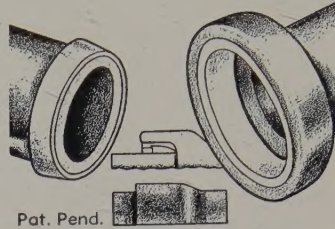
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I.S.P.E. BOARD MEETING—DECATUR YMCA—JANUARY 11, 1958

This meeting enjoyed a very good attendance, with officers and committees reporting on activities. After committee reports, the following action was taken:

James M. Whalen was nominated for honorary membership.

Charles K. Willett was nominated for the Illinois Award.

After reading a letter from Arthur A. Thorsell, the board decided to dissolve the Future Engineers of America, Inc., if no cost is involved, and give support to a new organization of young engineers already well started, known as the Junior Engineers Technical Society (JETS). The Future Engineers of America committee was then dissolved by President Neureuther.

An interim budget was adopted, subject to approval at the annual meeting.

After lunch, John Castle announced plans for the annual meeting to be held at Decatur on April 10, 11, & 12.

The Surveyors Functional Section will meet at the Univ. of Ill. Union Building, Urbana, on March 10, 11, & 12, concurrently with the Surveyor's Conference sponsored by the Univ. of Ill. Extension Division.

Proposed by-laws for the Highway Functional Section and the Industry Functional Section were approved, subject to approval of the Constitutional Amendments Committee.

The revised Constitution and By-laws of the Chicago Chapter were approved.

Under Old Business, the Board:

1—Recommended that Hardy Cross be given the N.S.P.E. Award for Meritorious Service to the Engineering Profession.

2—Decided that the I.E.C. Past President Certificate be presented to Ellis Danner at the annual meeting.

Under New Business, the following action was taken:

1—Approved Chapter Officer's Conference on Feb. 1 at Peoria.

2—The Teller's Committee reported on the letter ballot for ISPE officers as follows:

President—Frank W. Edwards—722*

Vice President—D. S. Magowan—723*

Secy-Treasurer—James P. Murphy—443*

A. Douglas Spicer—283

NSPE Directors (three)—C. J. McLean—632*

M. E. Amstutz—591*

Robert A. Brown—545*

Dwain M. Wallace—370

President Neureuther declared the above marked with asterisks elected as new officers.

John G. Duba was appointed Administrative Officer to the Mayor of Chicago, by Mayor Daley, effective January 1, 1958.

The next board meeting will be held at 8:30 A.M., April 10, 1958 in the Orlando Hotel, Decatur.

LADIES ENTERTAINMENT

Mary Neureuther, wife of President Neureuther, and Hannah Brensley, wife of A. A. Brensley, are Co-Chairmen of the ladies entertainment during the 73rd Annual Meeting. If the tentative program which is printed below is any indication of the entertainment planned for the ladies, they will have very few idle moments from the time they arrive until they leave.

The best wishes of the Society go with the ladies during their visit to Decatur.

P.S.—TO THE LADIES

Ideas for this convention are catching on—like measles in a kindergarten—each day new ones appear! Check this column in the next issue for the LAST FLASH!

For travel-minded ladies—and find one who isn't these days—the Thursday luncheon is a must.

Our Decatur wives are asking for more Hawaiian flavor at Convention—such a success at our January Aux. meeting!

Give an engineer an inch and he'll measure it!

Watch for more info about the Friday program—she's from the Windy City and has the latest!

And those social hours?—well, not the kind to hear a clock ticking to itself!

Complete program in next month's issue. Keep your eyes on the mailbox and be sure to make your reservations early!



St. Clair Chapter Annual Ladies Night Banquet

On Saturday, December 14, 1957, St. Clair Chapter had its Annual Ladies Night Banquet at the Elks Club in Belleville. President A. W. Neureuther and his wife were guests of the Chapter and he combined business with pleasure, using this meeting as his official visit to the Chapter. About 120 people sat down to dinner and enjoyed a social evening afterwards.

One of the highlights of the meeting was the installation of the new Chapter officers. Those in the accompanying picture are left to right, Mrs. Neureuther, President Neureuther, St. Clair Chapter President Phil Bauer, Mrs. Bauer, and new St. Clair Chapter President, Melvin A. Dobbs.

73rd ANNUAL MEETING

APRIL 10, 11, and 12, 1958

Orlando Hotel

Decatur, Illinois

WEDNESDAY—APRIL 9, 1958

7:00 p.m.—Registration Opens. Welcoming Committee in attendance at Orlando Hotel until 10:00 p.m.

THURSDAY—APRIL 10, 1958

8:00 a.m.—Registration

8:30 a.m.—Board of Direction Meeting—Orlando Hotel
Presiding—Andrew W. Neureuther, President

12:00 noon—

9:30 a.m. to

11:30 a.m.—Field Inspection Trips

9:00 a.m.—Exhibits to Open to Public

12:15 p.m.—Luncheon at Orlando Hotel

Presiding—Andrew W. Neureuther, President
Invocation—Dr. J. R. Ford, Grace Methodist Church, Decatur, Illinois
Welcome—Honorable Clarence Sablotny, Mayor
Address—Allen Van Wyck, President, Illinois Power Company, Decatur, Illinois
Subject—Nuclear Power Development in Illinois—25 minutes

2:00 p.m.—Board of Direction meeting

2:00 p.m. to

3:00 p.m.—Presiding—Andrew W. Neureuther, President
Speaker—Allison C. Neff, Vice President, Armco Drainage & Metal Products, Inc., Middletown, Ohio
Topic—Professional Unity

3:00 p.m. to

5:00 p.m.—Functional Section Meetings:

1. Industry
2. Private Practice
3. Surveyors
4. Education
5. Highway

6:00 p.m.—Social Hour

7:00 p.m.—Smorgasbord Dinner

8:00 p.m.—Entertainment

FRIDAY—APRIL 11, 1958

8:00 a.m.—Registration

8:30 a.m.—73rd Annual Meeting

Presiding—Andrew W. Neureuther, President

11:30 a.m.—Annual Meeting Adjourns

12:15 p.m.—Presidents' Luncheon

Presiding—Frank W. Edwards, Vice President
Invocation—Rev. Carrell W. Flewelling, Central Christian Church, Decatur, Illinois
Speaker—Garvin H. Dyer, President N.S.P.E., Missouri Water Company, Independence, Missouri
Subject—National Society of Professional Engineers

2:00 p.m.—Presiding—Alex Van Praag, Jr., Past President, N.S.P.E.

Speaker—R. H. Harrison, Regional Engineer
U.S. Bureau of Public Roads, Chicago, Ill.
Topic—Federal Highway Program
Discussion

2:45 p.m.—Speaker—Congressman John A. Blatnik of Minnesota

Topic—Water Conservation
Discussion

3:30 p.m.—Break

3:45 p.m.—Speaker—Dan Noble, Vice President, Motorola, Inc., Chicago, Illinois

Topic—Guided Missile Program
Discussion

5:00 p.m.—Adjourn

6:00 p.m.—Social Hour

7:00 p.m.—73rd Annual Banquet (Dress Optional) Orlando Hotel

Presiding—A. W. Neureuther, President
Invocation—Rt. Rev. Monsignor George H. Powell, Pastor St. Patrick's Church, Decatur, Illinois

Dinner

Presentation of the Illinois Award

Presentation of Past Presidents Certificate

Speaker—To be announced

10:00 p.m.—Dance

SATURDAY—APRIL 12, 1958

8:15 a.m.—Organization and First Meeting of 74th I.S.P.E.

Board of Direction (Open to Members of Society) at Orlando Hotel

12:00 noon—Luncheon—Orlando Hotel
Adjournment

Tentative Ladies' Program Annual I. S. P. E. Convention

THURSDAY, APRIL 10

10:00 a.m.—Coffee Hour—Victorian Room

9:30 a.m.—Browsing time for "Just Looking, Thank You!" shoppers

Antique Shops
Hawaiian Gift Shop
Fairview Plaza

1:00 p.m.—Luncheon—Seovill Club House
Program: to follow

3:00 p.m.—Seeing Decatur
Millikin University Campus
MacArthur High School

6:00 p.m.—Social Hour with Men—Hotel Orlando Pastel Room

7:00 p.m.—Smorgasbord—Hotel Orlando Ballroom

FRIDAY, APRIL 11

10:30 a.m.—Brunch—Elks Club Ballroom
Program: Excerpts from a current stage hit

1:30 p.m.—Seeing Decatur
Home Manufacturing Company, Ladies dresses
Picture Craft Co.

The Picture Craft Co. was the originator of the paint-by-number industry established in Decatur in 1938.

2-4:00 p.m.—Presidents' Tea—Home of Mr. and Mrs. Alex Van Praag, Jr.

Given by the Central Illinois Chapter's Ladies' auxiliary, honoring presidents of all auxiliaries. Mr. Van Praag is past president of both our State and National Professional Engineer Societies.

6:00 p.m.—Social Hour with Men—Victorian Room

7:00 p.m.—Banquet—Hotel Orlando Ballroom

Co-Chairwomen Ladies Entertainment



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NEWS OF THE CHAPTERS

Chicago Chapter 4th Annual Banquet

By GERALD MARKS

The fourth annual banquet of the Chicago Chapter of ISPE was held Thursday, January 16, 1958 at the Glass Hat Room of the Congress Hotel. There were 146 members and guests present.

A social hour was held from 6 to 7 and dinner was served at 7 P.M. The speakers table consisted of:

Father and Mrs. Jenks
Mr. & Mrs. Linas Brown
Mr. & Mrs. John Duba
Mr. & Mrs. George Chlebicki

Anthony Zummer acted as master of ceremonies and introduced guests and distinguished members.

Father Jenks gave a talk on "Narcotics".

John Duba was introduced as retiring President and before turning the gavel over to Linas Brown, incoming President, presented an award to the Chicago Tribune for their excellent coverage of engineering projects. Mr. & Mrs. Thomas Buck, and Mrs. Chesly Manley accepted the award on behalf of the Tribune. Hal Faust, the other reporter recognized, was unable to be present. The following were installed as officers: Linas Brown, President; George Chlebicki, Vice President; Gerald Marks, Secretary; William Jacobs, Treasurer; John Dolio, Harold Sommerschild, and John Duba, Chapter Representatives.

Everyone had an opportunity to dance till midnight and there was unanimity in the belief that all had a good time.

Lake County Chapter November 1957 Meeting

Meeting was called to order by President Neyer at 7:50 P.M., with the introduction of members and guests. There were 50 members and guests present.

The free meal was won by Roy W. Morris.

President Neyer read a communication from the Rock River Chapter outlining the coming State election, in which they asked for a contribution to help pay for mailing expenses. A motion was made by Welton and seconded by Dave Miller that the Lake County Chapter contribute \$25.00 to such a fund. Motion carried—by show of hands—15 for and 8 against.

President Neyer appointed Wm. Hooper, Irwin Litzke and Sid Danoff as members of the nominating committee to select a slate of officers for the coming year.

President Neyer appointed Art Hanson as chairman of a committee to organize and formulate a program for Engineer's Week.

The minutes of the October meeting were approved as read.

The acting secretary read a communication from the Waukegan Port Authority asking for financial help in

setting up an airport. President Neyer appointed M. Brown, A. Klarkowski, and Roy Morris as a committee to investigate and report on this matter.

Mr. Danoff urged that all members be sure to vote in the coming state election. He asked that special mention be made of the fact that one of our members, M. Amstutz, has been nominated for National Director and that special mention of this be made in next month's communication.

President Neyer turned the meeting over to Program Chairman Frank Furlan who introduced Mr. Wm. Gray of the Portland Cement Association as speaker for the evening. Mr. Gray gave an interesting and informative talk on the use and manufacture of prestressed concrete products.

Rock River Chapter Meeting

By A. W. OSTERLING

Meeting was called to order by President Renwick at 7:40. The President introduced new member Howard Wellman and guests John Parrish and George Fries, all from C. K. Willett & Assoc.

Minutes from the November 19 meeting were approved as published in the Chapter Newsletter.

First report of the Annual Meeting was made by the President who thanked the Chapter for their excellent cooperation during the year. He pointed out the importance of service in the Society to become acquainted with its many activities and accomplishments.

Vice President Ferger, reporting as program Chairman, had the Secretary enumerate the programs of the past year.

Secretary-Treasurer Osterling presented a report of the Chapter's financial and membership status. (Attached)

As Chapter Representative Renwick indicated the AIEE proposal is probably one of the most important issues now facing the Society. He urged examination of this proposal especially by those members of the founder Societies. A résumé of our activities at the Allerton Meeting and in connection with the State elections was given.

Publicity and Public Relations. Chairman Compher was not present.

Constitution and By-Laws. Chairman Walder reported that amendments necessitated by the State dues change were being prepared for submission to the coming State Board Meeting. A clause for members of other chapters to affiliate for \$2 will be included along with the exemption of life members from dues.

Engineers-in-Training. Reporting for Chairman Bowman, Osterling reported that there had not been enough prospects to sponsor a refresher course this year and that records on people interested and efforts made had been prepared for transmittal to the new committee.

Legislative. Chairman Willett was not present and President Renwick outlined the surveyors and city engi-

ers bills passed and the modified requirements for
ns on proposed bond issues.

Civil Defense. Chairman Gronberg was not present.
Refreshments. Chairman Gerald Conroy had no special
port.

Membership. Chairman Shular was not present.

Advertising. Chairman Callahan had no special report.

Ethics and Practice. Chairman Moore reported one
eged violator had been pursued. Renwick reminded
members that a recent court decision held that every
ense holder has the right of injunction against a violat-
of the registration acts.

Picnic. Chairman Gazda submitted a financial state-
nt reporting a profit of \$199.32 to the Chapter. (De-
ls attached) He thanked the committee members
kman, Fields and Etnyre for their contributions and
mbers Callahan, Wendler, Renwick and Walder who
o assisted. Rockford Chairman Bob Carlson was pres-
t and the Chapter gave a vote of thanks to the group
a well organized and financially successful event.

Secretary Osterling gave a financial report on the
ction campaign. The Chapter contribution was \$30.40.

Engineers Week. Reporting for Chairman Compher,
l Callahan indicated that preliminary work had been
ne on radio, TV and newspaper coverage by the Chair-
an. A 15 minute film and slides would be handled by
HBF-TV. A tape was being procured for WSDR. A
splay at the library and meeting at the high school
ere being considered. A motion by Osback, seconded
Moore that up to \$50 be appropriated for expenses
rried unanimously.

Arnold Lundgren reported on plans for the first Sur-
yors Conference to be held at the University of Illinois
arch 10, 11 and 12. The Society is cooperating on the
onsorship. Formation of a state-wide surveyors or-
nization will be discussed at the conference. Details
the program are being prepared and will be forwarded
all interested parties. Mr. Lundgren proposed that a
nner meeting be held locally in conjunction with Chap-
rs in the area for the purpose of organizing a function-
section.

Blair Ritterspaugh, speaking on behalf of the KSB
ospital Expansion fund gave a report on the needs
d plans for the proposed program and the financing
ecessary.

Nominating Committee. R. Hofmann reported the
llowing nominations: President—A. H. Ferger, Vice
resident—A. W. Osterling, Secretary-Treasurer—D. C.
ompher. A motion to accept the report by Moore, sec-
ded by Branigan was unanimous. On individual mo-
ons by Moore, Walder and Huffman the candidates
ere unanimously elected. President Renwick formally
stalled the new President and Vice President. Meeting
as adjourned for refreshments.

27 members attended the meeting. Guests from Rock-
rd Chapter included R. Carlson, F. Polkowski and A.
undgren.

West Central Chapter December 1957 Meeting

BY C. F. BATES

The December meeting of West-Central Chapter, Illi-
nois Society of Professional Engineers was held on
Wednesday evening, December 11, 1957 at Davidson's
Restaurant, Kewanee, Illinois with Vice-President Nor-
man Sauter presiding.

After a fine steak dinner the members and guests
were introduced around the tables.

The Secretary read the minutes of the November
meeting which were approved as read.

The Chairman then turned the meeting over to the
Secretary, who read the names of those nominated for
the offices in the Chapter. No further nominations being
presented, the following were elected: for President—
Norman Sauter; for Vice-President—Nicholas Fischer.
The meeting was then turned back to the Chairman of
the Evening, Vice-President Sauter.

Attention was called to the next meeting to be held
in Galesburg, which would be Ladies Night.

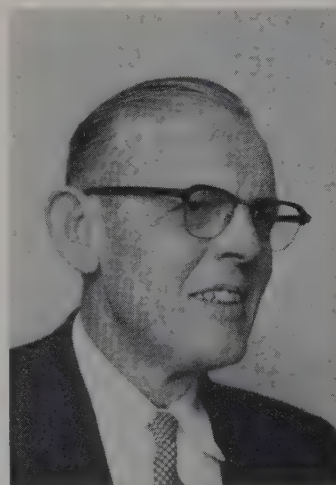
The Secretary informed the Chapter that he had serv-
ed the Chapter as Secretary for 7 years and would like
to be relieved of his duties in that office.

The Chairman then called upon Engineer Fulper who
introduced the speakers of the evening, Mr. Carl J. Ball
and Mr. John Fox, educators from the Davenport School
System. Their Educational and Psychological services
were presented. They demonstrated methods of rapid
reading which were very interesting and instructive.

73rd ANNUAL MEETING

HOTEL ORLANDO, DECATUR

APRIL 10, 11 & 12



73rd Annual Meeting
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73rd ANNUAL MEETING

HOTEL ORLANDO, DECATUR

APRIL 10, 11 & 12

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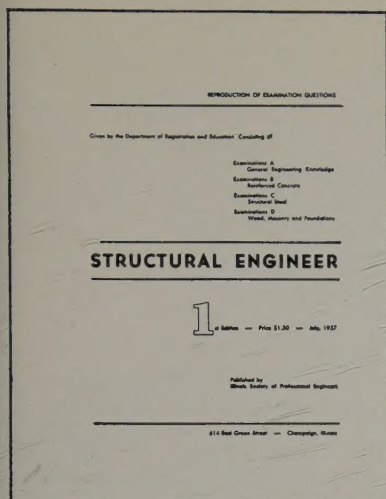
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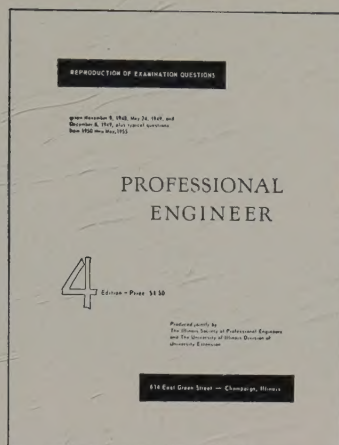
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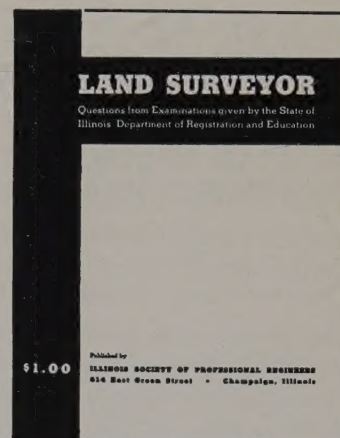


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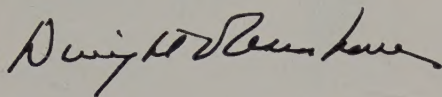
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NATIONAL ENGINEERS' WEEK

National Engineers' Week calls attention to the work of our engineers, especially their vital role in the success of the International Geophysical Year. By this great cooperative effort to extend man's horizons and to increase his knowledge of the world, our young people are inspired to choose the discipline of the engineering profession and render important service to our nation and the building of peace.



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2029 K Street, N. W.
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KILLIAN, 13 OTHERS TO SPONSOR NATIONAL ENGINEERS' WEEK

Fourteen leading engineering figures will act as sponsors for the 1958 National Engineers' Week, February 16-22.

The list of sponsors was announced by John L. Bahr, national chairman of the annual observance held each year during Washington's birthday week under the general sponsorship of the National Society of Professional Engineers.

The fourteen individual sponsors are: James R. Killian, Jr., president, MIT, and newly appointed special assistant to President Eisenhower for science and technology; Allen B. DuMont, chairman of the board, Allen B. DuMont Laboratories, Inc.; Major General Emerson C. Itschner, chief of engineers, United States Army; Charles F. Kettering, General Motors Corporation; Clarence H. Linder, vice president, General Electric Company; Thomas E. Murray, consultant, Joint Committee on Atomic Energy; Granville M. Read, chief engineer, E. I. du Pont de Nemours and Company; Rear Admiral H. G. Rickover, chief of naval reactors, United States Atomic Energy Commission; Royal W. Sorensen, California Institute of Technology; Philip Sporn, president, American Gas and Electric Company; David B. Steinman, consulting engineer; Bertram D. Tallamy, Federal Highway Administrator; Charles Allen Thomas, president, Monsanto Chemical Company; and Robert E. Wilson, chairman of the board, Standard Oil Company of Indiana.

Government Employees Pay Schedule

The Administration's proposed pay schedule for classified government employees "could prove seriously detrimental to the morale of our Federal scientists and engineers, and result in an ever higher resignation rate from Federal service," a spokesman for the National Society of Professional Engineers has stated.

Paul H. Robbins, executive director of the 43,000 member organization, declared that a limiting salary provision in the Administration's new schedule would, as a practical matter, "nullify" the recent Civil Service order designed to close the gap between Federal and industry-wide salaries for scientists and engineers.

In a letter to Senators and members of the House Pay Office and Civil Service Committee, Mr. Robbins pointed out that President Eisenhower's recommended Federal pay schedule would "deny the full benefits of an overall classified pay raise to those persons who have been raised to the top step of their grade as a result of the recent Civil Service order."

Mr. Robbins explained that the National Society position was based on the belief that thousands of engineers and scientists would get no increase whatever, only a small one under the President's new schedule. These engineers and scientists would not get the combined benefit of the proposed salary increases and the special top-of-their-grade raises authorized by the Civil Service Commission, he pointed out.

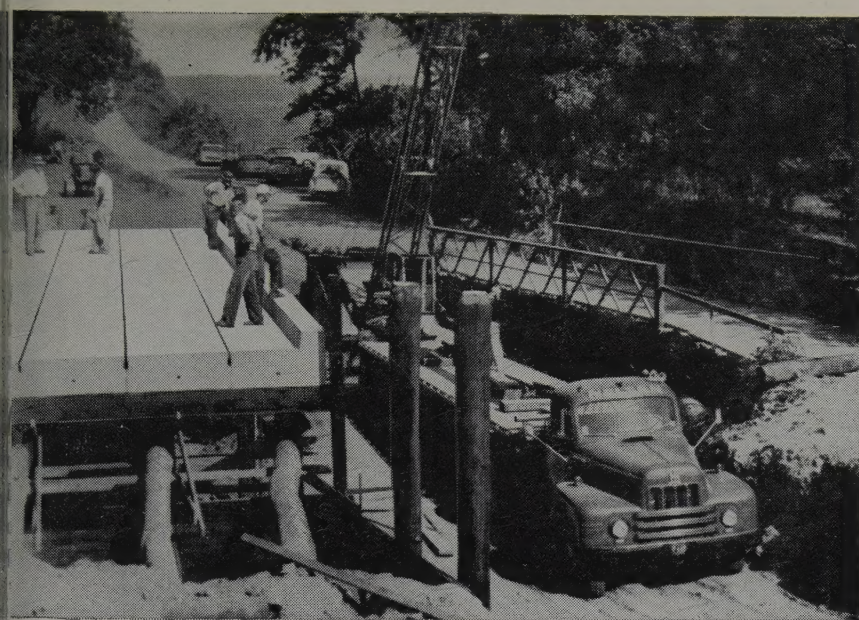
In his letter, Mr. Robbins urged that "until a professional scientific-engineering schedule is established, the Federal Government should do all within its power to elevate the salaries of Federal scientists and engineers to a level which is more closely equal to the salaries currently being received by their counterparts in industry and other areas of employment."

An income and salary survey made by the National Society indicates a 21 per cent median salary increase for all engineers from 1952 to 1956, as compared to a 12 per cent increase for Federal engineers over the same period. The survey also indicates that engineers in the Federal service during 1956 were paid at a rate 21 per cent lower than in private industry.

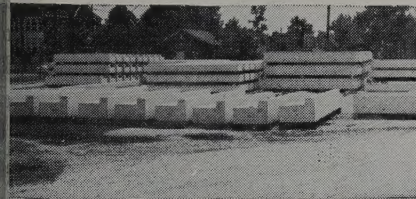
73rd ANNUAL MEETING HOTEL ORLANDO, DECATUR APRIL 10, 11 & 12

The great detective was shown into the boss' office. "Look," said the boss, "I've been robbed of thousands. Some robber has been 'round the country posing as one of our collectors and has simply coined money. In one week he collected more than all our travelers put together. Find him at once—and spare no expense." The great detective rose to his feet. "In a week he'll be jailed—I guarantee it."

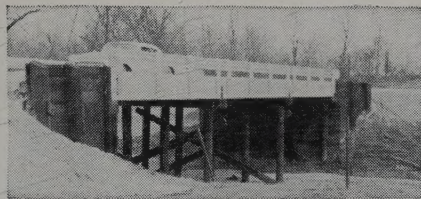
"Jail?" roared the boss. "I want to give him a job."
—*Man's Shop*



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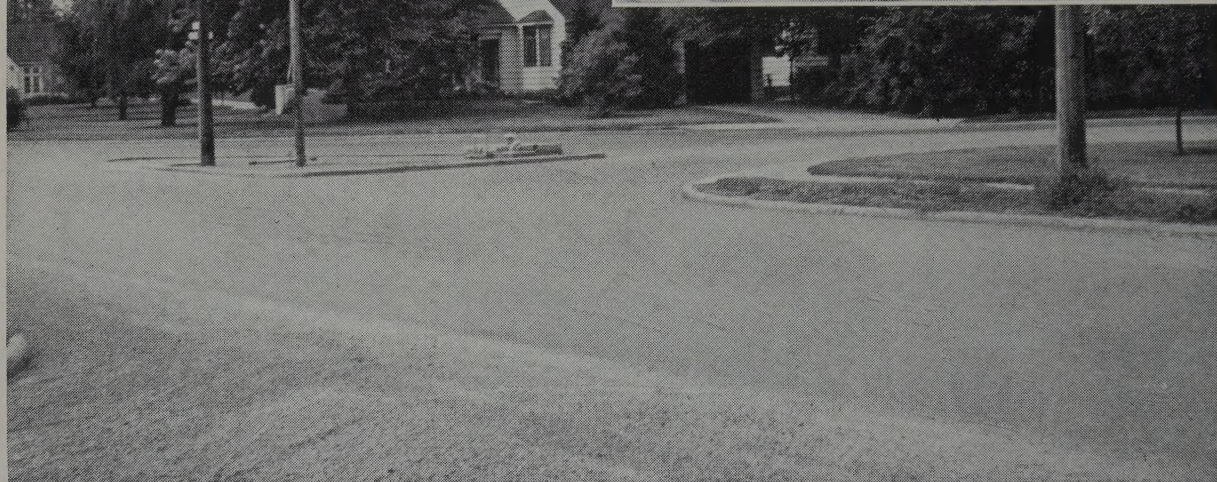
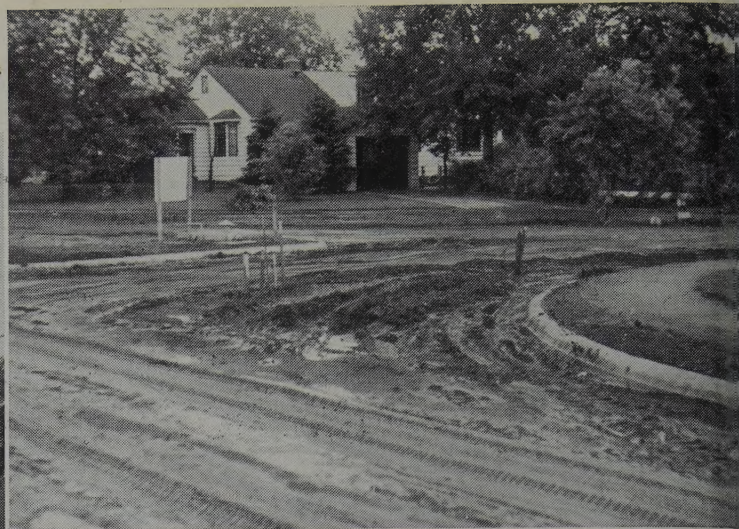
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*Soil-cement pavement consists of soil-cement base and bituminous surface.

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